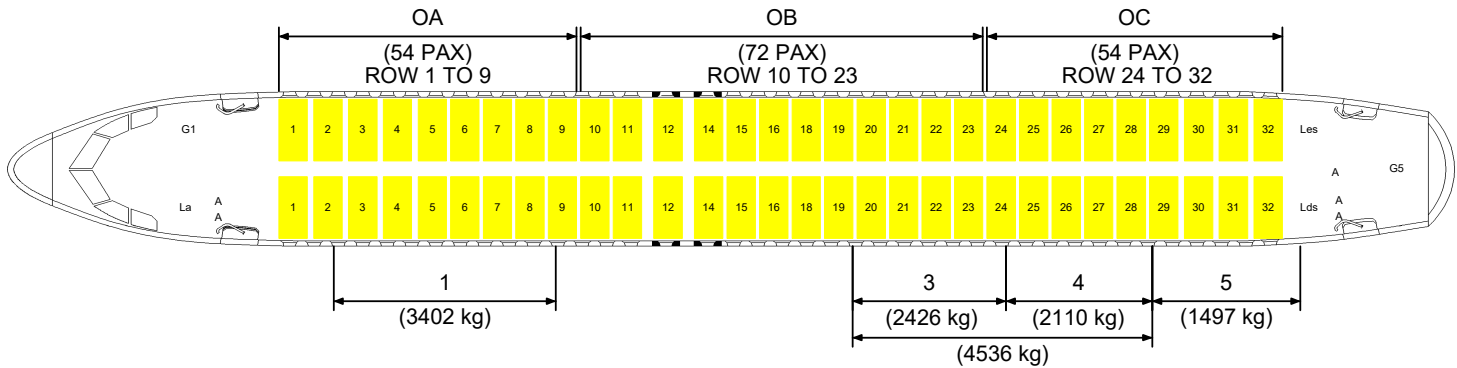


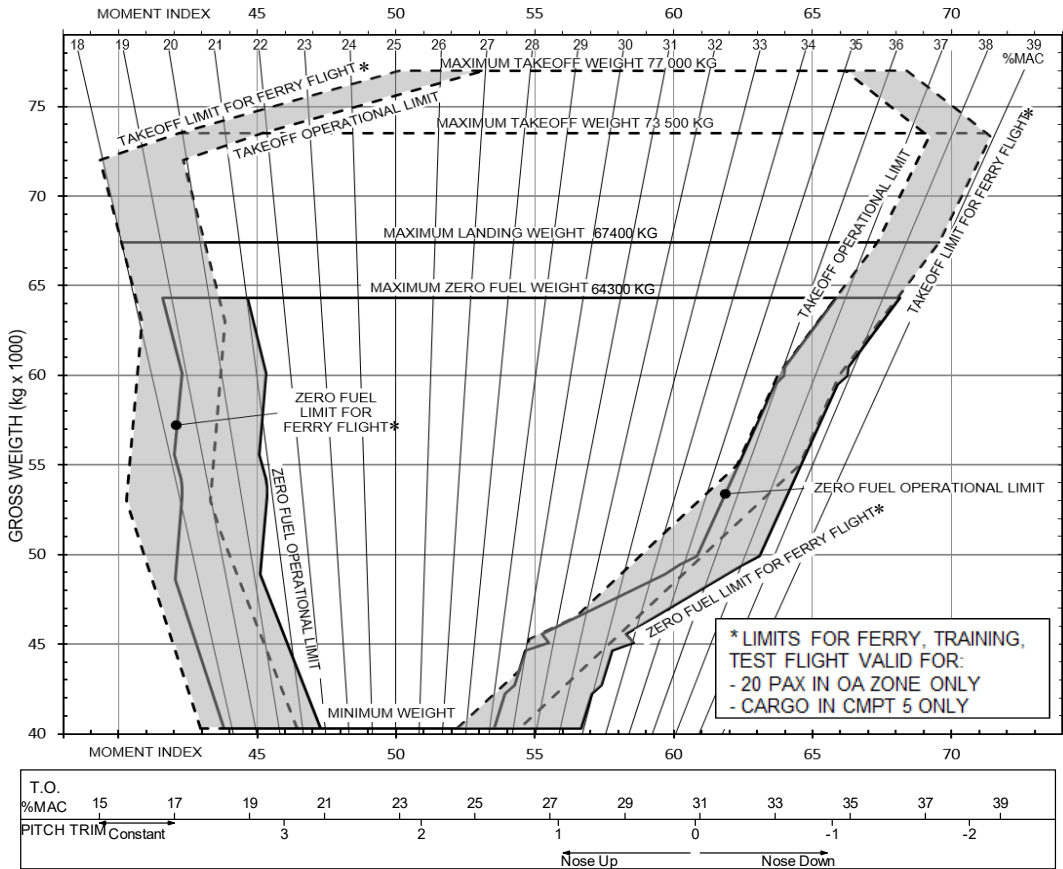


A320-272N BALANCE CHART

FLIGHT _____
A/C _____
DATE _____



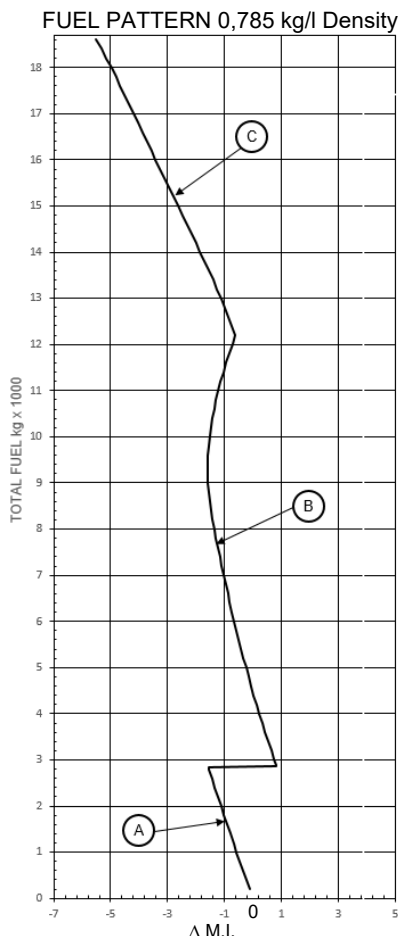
ZONES	Nbr	WEIGHT(kg)	INDEX
Compt 1		500 kg	40
Compt 3		500 kg	50
Compt 4		500 kg	60
Compt 5		250 kg	70
CABIN OA		5 PAX	
CABIN OB		25 PAX	
CABIN OC		5 PAX	
FUEL INDEX			
SEE TABLE OVERLEAF			



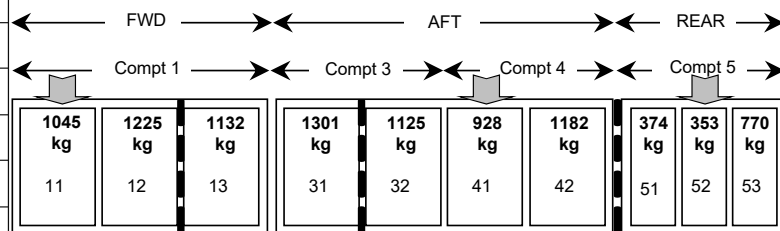
ZFW CDU INPUT	
WEIGHT (kg x 1000)	AIRCRAFT CG % MAC
TAKEOFF	
CG % MAC	

USE OF BALANCECHART. For explanation of use of the Balance Chart, see FCOM PER-LOD-WBA-LTS.
Refer to Crew Alert Notice or **Mass and Balance Data Sheet** to check for any updated values.

FUEL - Δ M.I. TABLE			
FUEL ON BOARD (kg)	FUEL DENSITY (kg/l)		
	0.770	0.785	0.810
500	0	0	0
1000	-1	-1	-1
1500	-1	-1	-1
2000	-1	-1	-1
2500	-1	-1	-1
2800	-2	-2	-2
2850	+1	-2	-2
2900	+1	+1	+1
3000	+1	+1	+1
3500	0	0	+1
4000	0	0	0
4500	0	0	0
5000	0	0	0
5500	0	0	0
6000	-1	-1	-1
6500	-1	-1	-1
7000	-1	-1	-1
7500	-1	-1	-1
8000	-1	-1	-1
8500	-2	-1	-1
9000	-2	-2	-2
9500	-2	-2	-2
10000	-1	-2	-2
10500	-1	-1	-2
11000	-1	-1	-1
11500	-1	-1	-1
12000	-1	-1	-1
12500	-1	-1	-1
13000	-1	-1	-1
13500	-2	-1	-1
14000	-2	-2	-2
14500	-2	-2	-2
15000	-3	-3	-2
15500	-3	-3	-3
16000	-4	-3	-3
16500	-4	-4	-4
17000	-4	-4	-4
17500	-5	-5	-4
18000	-5	-5	-5
18267	-5	-5	-5
18500		-5	-5
18623		-6	-6
19000			-6
19216			-6



WEIGHT LIMITATIONS WV 051 WV 053		
MAXIMUM TAXI WEIGHT	73900 kg	77400 kg
MAXIMUM TAKEOFF WEIGHT	73500 kg	77000 kg
MAXIMUM LANDING WEIGHT		67400 kg
MAXIMUM ZERO FUEL WEIGHT		64300 kg
MINIMUM WEIGHT		40300 kg
MAXIMUM STRUCTURAL LOAD		
Compt 1	3402 kg	
Compt 3	2426 kg	
Compt 4	2110 kg	
Compt 5	1497 kg	
MAXIMUM CUMULATIVE LOAD		
FWD (Compt 1)	3402 kg	
AFT (Compt 3 + Compt 4)	4536 kg	
REAR (Compt 5)	1497 kg	



Full Bulk configuration with Max Floor Loading (kg/m²) All CMPTs: 732

A – INNER TANKS (OUTER TANKS EMPTY)
B – INNER TANKS (OUTER TANKS FULL)
C – CENTER TANK

LOAD LIMITATION CHECK

- 1) According to the number of passenger, for each Passenger Cabin (OB not involved because considered in analysis) enter the Weight/Bending Index columns reporting the respective values.
- 2) For each Bay of Cargo Compartment, enter the table with the relevant weight and report the Weight and the corresponding Bending Index in the proper columns.
- 3) According to the **A/C ZFWCG**, compute the total values and compare the total Weight/Bending Index for both FWD and AFT LIMITS with the structural ones.
- 4) The structural limits must always be EQUAL to or GREATER than the total ones found in 3).

PASSENGER CABIN				PASSENGER CABIN				Cargo compartment - "BULK" loading (no CLS installed)										
PSG n.	WEIGHT (kg)	BENDING INDEX (B.I.)		PSG n.	WEIGHT (kg)	BENDING INDEX (B.I.)		WEIGHT (kg)	BENDING INDEX (B.I.)									
		FWD - OA	AFT - OC			CMPT 1			CMPT 3		CMPT 4		CMPT 5					
1	84	6	10	31	2604	139	261	100	5	3	2	3	5	7	8	11	21	
2	168	12	19	32	2688	142	268	200	10	7	4	7	10	13	17	21		
3	252	17	29	33	2772	144	274	300	15	10	6	10	15	20	25	32		
4	336	23	39	34	2856	147	281	400	21	14	8	14	20	27	33	43		
5	420	29	49	35	2940	150	287	500	26	17	10	17	25	33	41	53		
6	504	35	58	36	3024	152	294	600	31	21	12	20	30	40	50	64		
7	588	40	68	37	3108	154	300	700	36	24	14	24	35	47	58	75		
8	672	45	77	38	3192	157	306	800	41	28	15	27	41	53	66	86		
9	756	51	86	39	3276	159	312	900	46	31	17	31	46	60	74	96		
10	840	56	95	40	3360	161	318	928						62				
11	924	61	104	41	3444	163	324	1000	52	35	19	34	51		83	107		
12	1008	66	113	42	3528	165	330	1045	54									
13	1092	71	122	43	3612	166	336	1100		38	21	37	56		91	118		
14	1176	75	130	44	3696	168	341	1125					57					
15	1260	80	139	45	3780	169	347	1132			22							
16	1344	84	147	46	3864	171	352	1182							98			
17	1428	89	155	47	3948	172	358	1200		42		41				128		
18	1512	93	164	48	4032	174	363	1225		42								
19	1596	97	172	49	4116	175	368	1300				44					139	
20	1680	101	180	50	4200	175	373	1301				44						
21	1764	105	187	51	4284	176	377	1400									150	
22	1848	109	195	52	4368	177	382	1497									160	
23	1932	113	203	53	4452	178	387											
24	2016	117	211	54	4536	179	392											
25	2100	120	218															
26	2184	123	225															
27	2268	127	233															
28	2352	130	240															
29	2436	133	247															
30	2520	136	254															

STRUCTURAL LIMITATIONS				STRUCTURAL LIMITATIONS			
ZFWCG (%MAC)	FWD		AFT	ZFWCG (%MAC)	FWD		AFT
	WEIGHT (kg)	BENDING INDEX (B.I.)			WEIGHT (kg)	BENDING INDEX (B.I.)	
17	8418	323	6198	31	6457	251	8169
18	8278	318	6339	32	6317	245	8309
19	8138	313	6480	33	6177	240	8450
20	7998	308	6620	34	6037	235	8591
21	7858	302	6761	35	5897	230	8732
22	7718	297	6902	36	5757	225	8872
23	7578	292	7043	37	5617	220	9013
24	7438	287	7183	38	5477	214	9154
25	7298	282	7324	39	5337	209	9295
26	7158	277	7465	40	5197	204	9435
27	7018	271	7606	41	5057	199	9576
28	6878	266	7746	42	4917	194	9717
29	6738	261	7887				
30	6597	256	8028				

LOAD LIMITATION FORM

A/C ZFW CG (%MAC)

FWD LIMITS

WEIGHT BENDING INDEX

Kg INDEX

OC

BAY 31

BAY 32

BAY 41

BAY 42

BAY 13

CMPT 5

TOTAL

WEIGHT/BENDING INDEX